

- Continual updates regarding Terrorism concerns
  - http://www.bt.cdc.gov/agent/index.asp
  - Agents, Diseases and Threats
    - Chemical
    - Radiation
    - Biological
  - Select Agents within Biological Category
    - http://www.cdc.gov/od/sap/general.htm
    - □ http://www.cdc.gov/od/sap/appen1.htm
    - http://www.cdc.gov/od/sap/docs/42cfr73.pdf
- Awareness of these regulations in product development

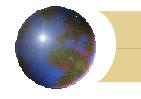


- □ First Biological Select Agent Regulation, 42 CFR 72.6
  - Proposed June 10, 1996, by CDC and HHS
    - Notice of Proposed Rulemaking to implement Section 511 of Public Law 104-132, "The Antiterrorism and Effective Death Penalty Act of 1996"
    - Requires the Secretary of HHS to regulate the transfer of select agents; delegated responsibility to CDC
  - Effective date April 15, 1997
    - □ Registration of facilities/supporting documentation
    - ☐ List of Select Agents
    - Mechanism for possible exemptions



## Current Biological Select Agent Rule

- Interim Final Rule 42 CFR part 73
  - Possession, Use and Transfer of Select Agents and Toxins;
     Interim Final Rule
- Co-published with 42 CFR part 1003
  - Established monetary penalties for violations
- Significant dates
  - Published Friday December 13, 2002
  - Effective February 7, 2003 (phased in timelines for some aspects)
  - Comment deadline February 11, 2003
  - □ Full compliance by October 11, 2003



## Purpose of the Select Agent Update

- □ 42 CFR 72.6
  - Transfers/shipping/sending/receiving SA in the USA
- 42 CFR 73 (2001 Anthrax)
  - Possession, use and transfer within USA, receipt from outside US
  - Additional requirements/security risk assessments
  - Bolstered authority to protect against misuses of Select Agents and Toxins whether inadvertent or as a result of terrorist acts against US homeland.

# "Reducing the Chance of Accidental or Intentional Release"

- 42 CFR 73 Critical Requirements
  - Register/determine where select agents and toxins are located
  - Ensure that transfer, storage and use are tracked
  - Screen personnel with access
  - Required entities in possession of Select Agents to:
    - Develop/implement effective bio-safety programs
    - Develop/implement effective physical security programs
- 42 CFR 1003 Civil Penalties for non compliance
  - ☐ Individuals \$250,000
  - □ Others \$500,000



- HHS (CDC) has authority and responsibility for regulating activities to protect protect public health and safety (HSS Select Agents, 42 CFR 73.4)
- USDA has authority and responsibility for regulating activities to protect animal and plant health and animal and plant products (42 CFR 73.5)
- 'Overlap' Select agents subject to regulation by both groups; control by Interagency coordination



### Microorganisms

 including but not limited to bacteria, viruses, fungi, rickettsiae or protozoa

#### Infectious substances

any naturally occurring, bio-engineered or synthesized component of any such microorganism or infectious substance

### Capable of causing

- death, disease or other biological malfunction in a human, an animal, a plant or another living organism
- deterioration of food, water, equipment, supplies or material of any kind
- deleterious alteration of the environment

# Definition of a Biological Select Agent (Part 2)

- For which the HHS Secretary is concerned about:
  - Effect on human health of exposure
  - Degree of contagiousness/method of transmission
  - Availability/Effectiveness of prevention/treatment
  - Any other criteria, e.g. needs of children and vulnerable populations

# Current List of Biological Select Agents

Agent	Viral	Bacterial	Fungal	Toxins
Type				
HHS Select Agents	"Crimean-Congo Haemorrhagic Fever Virus "Ebola Viruses "Cercopithecine Herpesvirus I (Herpes B Virus) "Lassa Fever Virus "Marburg Virus "Monkeypox virus "South American Haemorrhagic Fever Viruses (Junin, Machupo, Sabie, Flexal Guanarito) "Tick-borne Encephalitis complex (Flavi) Viruses "Variola Major Virus (Smallpox) and Variola Minor Virus (Alastrim)	■Rickettsia prowazekii ■Rickettsia rickettsii ■Yersinia pestis	■Coccidioides posadasii	-Abrin -Conotoxins -Diacetoxyscirpenol -Ricin -Saxitoxin -Tetrodotoxin -Shiga-like ribosome inactivating proteins
Overlap Select Agents	Eastern and Venezuelan Encephalitis     Nipah and Hendra     Complex Viruses     Rift Valley Fever Virus	■Bacillus anthracis ■Brucella abortis, B. melitensis and B. suis ■Burkholderia mallei and B. pseudomallei (Pseudomonas) ■Botulism neurotoxin producing strains of Clostridium ■Coxiella burnetii ■Francisella tularensis	•Coccidioides immitis	Botulism neurotoxins Clostridium perfrigens epsilon toxin Shigatoxin Staphylococcal enterotoxins T-2 toxin

### 42 CFR 73.4 and 73.5

### Genetic Elements, Recombinant Nucleic Acids and Recombinant Organisms of Select Agents (SA)

### Additional details in Interim Regs

- □ (e)(1)
  - SA viral nucleic acids that can encode for infectious or replication competent forms of SA viruses
- $\Box$  (e)(2)
  - Nucleic acids (naturally derived or synthetic) that can encode for functional form of any of the SA toxins
- $\Box$  (e)(3)
  - Viruses, bacteria, fungi and toxins listed in 73.5 a-d (overlap SA) that have been genetically modified



- Expanded (e)(1) viral nucleic acids from SA
  - naturally derived or synthetic
  - contiguous or fragmented
  - ☐ in host chromosomes or in expression vectors
  - that can encode for infectious or replication competent forms of SA viruses
- Expanded (e)(2) nucleic acids (naturally derived or synthetic) that can encode for functional form of any of the SA toxins
  - in a vector or host chromosome
  - that can be expressed in vivo or in vitro
  - are in a vector or host chromosome and can be expressed in vivo or in vitro



### Exclusions Codified in the Interim Rule

### General Exclusions across sections of 42 CFR

- Naturally occurring Toxins and SA; not introduced, cultivated collected or otherwise extracted from natural source
- Specific Vaccine Strains
  - ☐ Junin virus Candid #1, Rift Valley MP12, VEE TC-83
- Specific toxins when aggregate amount does not exceed certain milligram quantities
  - 0.5 mg Botulism Toxin, 5 mg Staph enterotoxin, 100 mg Shiga toxin
- Nonviable SA organisms or non functional toxins

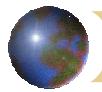


## What about...

- ■Investigational New Drugs
  - Subject to the SA regulation
  - Must notify CDC of use
  - Must notify CDC if there is a clinical hold
  - Exemptions on case-by case basis



- Exemptions for Agent and Facility
  - Responsibility of the User/Entity to file
    - Must apply to CDC or USDA, depending on the agent
    - Provide scientific information and justification for requested exemption
    - Must have specific procedures for use, transfer and destruction
  - CBER and other exclusions announced on Website



CDC Select Agent
Program CDC: Office of the Director: Select Agent Program

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Office of the Director

CDC Home Search Health Topics A-Z

#### Select Agent Program



Program Links

Select Agent Regulations, 42 CFR 73.0, Interim Final Rule

- and Additional Forms
- · General Information Helpful Resources

Regulation, 42 CFR

- · Application Package
- . Application Information

Notification of

Additional Resource Material

Contact Us

Search SAP



The Centers for Disease Control and Prevention is required to regulate the possession of biological agents and toxins that have the potential to pose a severe threat to public health and safety. CDC's Select Agent Program oversees these activities. The Select Agent Program currently requires registration of facilities including government agencies, universities, research institutions, and commercial entities.

 Application Information On this Web site you will be able to download application packages, view current regulations regarding select agents and access additional resource information. If you still have questions or concerns after reviewing the material contained in this website, please contact our program via email at Irsat@cdc.gov, phone at 404-498-2255 or fax at 404-498-2265.

Materials on this site last updated: 07/10/2003 04:48 PM

Attention Dermatologists: Botulinum neurotoxin is only considered a select toxin under the Select Agent regulations when the amount under the control of a physician exceeds 0.5 mg. Additionally, all dermatology clinics using FDA-approved botulinum toxin preparations in accordance with labeling instructions are excluded from the requirements to register under the Select Agent regulations and DO NOT need to submit a letter to CDC or USDA to declare exemption from registration with the Select Agent Program.

Select Agent Regulation, 42 CFR 73.0, Interim Final Rule

- · Application Information and Additional Forms
  - Application Package
  - a Additional Forms
- · General Information
  - o Letter of Solicitation
  - 6 Public Comments on the New Regulation
  - Public Meeting, Washington, DC, December 16, 2002
  - Regulatory Impact Analysis and Appendices
- · Helpful Resources
  - FAQ for New Regulation (updated 07/08/2003)
  - List of Select Biological Agents and Toxins
  - Notification of Exclusion (updated 06/12/2003)

http://www.cdc.gov/od/sap/

9/26/2003

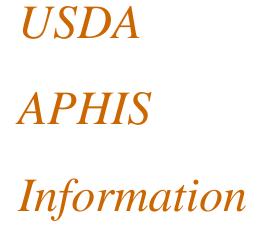


# USDA Select Agent Information

- USDA/HHS Select Agricultural Agents
  - www.aphis.usda.gov/vs/ncie/bta.html
    (APHIS is the Animal & Plant Health inspection Service)
  - Regulated under Animal Protection Act
  - Use is Regulated under USDA rather than CDC
  - Links to CDC information

Agricultural Bioterrorism Protection Act of 2002

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#### ices V

#### Veterinary Services

#### Safeguarding Animal Health

Import / Export

Hans	Bologica	Titlete Support
Disease Erzéeatien	VS Laboratories	Energency
Montoring & Succeitance	Avea Offices	Imperil Expert

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Site Map
Who We Are
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Fire Internation on
Alternative
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Aquaculture
Cattle
Horses
Pigs
Poultry
Sheep
Wildlife



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	Approy Links
Т	USDA Home
-	ACHUE H
	APHIS Home

Ft Skp 26 (5:00 TT 2003)

Agricultural Bioterrorism Protection Act of 2002. Biological Agents and Toxins, Possession

- HHS, USDA Establish New Regulations for Use of Select Biological Agents of 2002 (pdf)
- December 13, 2002, Agricultural Bioterrorism Protection Act of 2002;
   Possession, Use and Transfer of Biological Agents and Towns; Interim Final Rule, Department of Agriculture, APHIS (pdf)
- · Agent and Toxin List (pdf)
- December 13, 2002. Possession, Use, and Transfer of Select Agents and Toxins, Interim Final Rule, Department of Health and Human Services, Office of the inspector General (pdf)
- August 12, 2002 Federal Register Notice Agricultural Bioterrorism Protection Act: Biological agents and toxins; possession
- Public Health Security and Bioterrorism Preparedness and Response Act of 2002 (pdf)
- . Questions and Answers

#### FORMS

- APHIS Form 2044/CDC Form 0.1319 Application for Laboratory Registration
  - G. Attalweer J. 42 CFR Par 71. Scient Buildpirol Agents and Testros Final Rain. Polonal Register. December 13, 2082.
  - Administrati J. 9 URB Part 121 Agricultural Biomrorben Protection Act of 2002; Possesson, Unit, and Transfer of Biological Agents and Towles. Pplant Register, Depumber 13, 2002.
  - O. Attachment J. T.C.Fill 33) Reseasion of Solvet Agents, Evident Regions, December 13, 2002.
  - Attachment 5, APHS application for permit to impact or tempert-controlled material or expensions or rectors (VS 6mm 18-2).
  - O. Machenni S. Additional Telloragion for cell cultures and their products (VS form 16-7).

In order to fulfill the Department of Justice responsibilities under the Act, the Federal Bursau of Investigation (FBI) is responsible for conducting security risk sessements of Individuals seeking access to isted agents and toxins and individuals or entities seeking access to isted agents and toxins and individuals or entities seeking to register under the Act.

http://www.aphis.usda.gov/vs/ncie/bta.html

9/26/2003



# Transport or Export of SA

- 42 CFR 73 has a <u>Procedural</u> impact on actual transportation of Biological Select Agents
- 42 CFR 73 places no restrictions on exportation of SA or toxins
- Shipping/Transport in the US
  - Department of Commerce 15 CFR
  - Department of Transportation 49 CFR 171-178
    - □ IATA, ICAO, Individual Commercial Carriers
  - CDC revising 42 CFR 72 to harmonize other regs



- Frequent updates on various Websites
  - Changes in status/ additions/deletions
  - Exclusions (Sterne Strain, FVS)
  - □ Revisions to 42 CFR 72 (shipping) expected soon
- Direct Information from CDC/USDA
  - Reviewed on a case-by case basis
  - Timely Review
- Institutional Safety Committees/Officers/Scientists
  - Registration, access/training, security, risk assessments, procedures